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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,813	04/12/2007	Srinivas K. Chunduru	1282-P03335US01	3625
	7590 03/24/200 MAN, HERRELL & S	EXAMINER		
1601 MARKET STREET SUITE 2400 PHILADELPHIA, PA 19103-2307			WEDDINGTON, KEVIN E	
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			1614	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/579,813	CHUNDURU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kevin E. Weddington	1614			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>28 December</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) 3-32 is/are withdrawn 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 2 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ access	r. from consideration.	- - - - -			
Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction is objected to by the Ex	drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10-25-07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

Claims 1-32 are presented for examination.

Applicants' information disclosure statement filed October 25, 2007 has been received and entered.

Applicants' election filed December 28, 2007 in response to the restriction requirement of November 29, 2007 has been received and entered. The applicants elected the invention described in claims 1 and 2 (Group I) with traverse. Also the applicants further elected from formulae I-VIII, formula VII.

Applicants' traverse is noted but is not deemed persuasive for reasons set forth in the Office action dated November 29, 2007; therefore, the restriction requirement is hereby made Final.

Claims 3-32 are withdrawn from consideration as being drawn to the nonelected invention (37 CFR 1.142(b)).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1 and 2 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the treatment of viral infections with triazinoindole compounds, does not reasonably provide enablement for the prevention (prophylaxis) of viral infections in a subject with triazinoindole compounds. The specification does not enable any person skilled in the art to which it pertains, or with

which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

In this regard, the application disclosure and claims have been compared per factors indicated in the decision In re Wands, 8 USPQ2d 1400 (Fed. Cir., 1988) as to undue experimentation.

The factors include:

- 1) the quantity of experimentation necessary
- 2) the amount of direction or guidance provided
- 3) the presence or absence of working examples
- 4) the nature of the invention
- 5) the state of the art
- 6) the relative skill of those in the art
- 7) the predictability of the art and
- 8) the breadth of the claims

The instant specification fails to provide guidance that would allow the skilled artisan background sufficient to practice that instant invention without resorting to undue experimentation in view of further discussion below.

The nature of the invention, state of the prior art, relative skill of those in the art and the predictability of the art

The claimed invention relates to a method for the prevention (prophylaxis) of viral infections in a subject with triazinoindole compounds.

The relative skill of those in the art is generally that of a Ph.D. or M.D.

There are no known preventive therapies for viral infections in the art.

It is clear the art to which the present invention relates is highly unpredictable and unreliable with respect to conclusions drawn from laboratory data extrapolated to clinical efficacy.

The breadth of the claims

The claims are very broad and inclusive of any "causes" of viral infections.

The amount of direction or guidance provided and the presence or absence of working examples

There are no examples showing the instant compounds will, in fact, prevent a viral infection in a subject not presently at risk of or predisposed to developing such an infection. No examples showing the instant compound is administered to a healthy subject not having a viral infections, and the administration of the instant compound will prevent the subject from becoming infected with a virus during its lifetime. Current modes of treatment are known, but there are no known agents, which can be, prevent the causes of a viral infection in a healthy subject.

The working examples only shows the preferred compounds, triazinoindole compounds, are used to treat hepatitis C virus only.

The quantity of experimentation necessary

Applicants have failed to provide guidance as to which cause would be prevented for a viral infection. The skilled artisan would expect the interaction of a particular drug in the prevention of causes of a viral infection to be very specific and highly unpredictable absent a clear understanding of the structural and biochemical

basis of the agent. The instant specification sets forth no such understanding nor any criteria for extrapolating beyond the administration of the compound to treat a viral infection. Even for the data presented, no direction is provided to prevent specific causes of a viral infection. Absent reasonable a priori expectations of success, one skilled in the art would have to test extensively many conditions that may lead to a viral infection to discover which cause is prevented. Since each prospective embodiment, as well as future embodiments as the art progresses, would have to be empirically tested, undue experimentation would be required to practice the invention as it is claimed in its current scope. The specification provides inadequate guidance to do otherwise.

Claims 1 and 2 are allowed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Eshba et al., "Synthesis of some substituted 1,2,4-triazino[5,6-b] indole derivatives as potential antiviral and anticancer agents", Pharmazie, Vol. 42, No. 10, pp. 664-666 (1987).

Eshba et al. disclose substituted 1,2,4-triazino[5,6-b] indole derivatives and compositions containing them (see structure II).

Note that a composition comprising the same agents as the claimed composition will inherently possess the qualities recited herein.

Claims 1 and 2 are not allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin E. Weddington whose telephone number is (571)272-0587. The examiner can normally be reached on 12:30 pm-9:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel can be reached on (571)272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have guestions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Kevin E. Weddington Primary Examiner Art Unit 1614

Primary Examiner, Art Unit 1614